

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :

B32B 5/32**A1**

(11) International Publication Number:

WO 00/23270

(43) International Publication Date:

27 April 2000 (27.04.00)

(21) International Application Number: PCT/EP99/07338

(22) International Filing Date: 4 October 1999 (04.10.99)

(30) Priority Data:

98119685.0

19 October 1998 (19.10.98)

EP

(71) Applicant (for all designated States except US): CRYOVAC, INC. [US/US]; 100 Rogers Bridge Road, Duncan, SC 29334 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DI CESARE, Gregorio [IT/IT]; Via XX Settembre 81, I-20023 Cerro Maggiore (IT). COLNAGHI, Renato [IT/IT]; Via Europa, 18/B, I-20010 Pogliano Milanese (IT).

(74) Agent: DE CARLI, Elda; Cryovac S.p.A., Via Trento, 7, I-20017 Passirana di Rho (IT).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published*With international search report.**Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.*

(54) Title: THERMOFORMABLE MULTI-LAYER POLYPROPYLENE FOAM SHEET

(57) Abstract

A thermoformable, multilayer, co-extruded sheet comprising at least two separate foam polypropylene layers obtained by chemical foaming of two polypropylene resins having different flexural modulus, a "high modulus" polypropylene and a "low modulus" polypropylene. The presence of two different foam layers of polypropylene of different modulus allows obtaining a thermoformable sheet with the desired balance between thermoformability and stiffness.